Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-07-15-32 **Date: 13-04-2022**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 5th Cross, 1st Main Santhosh Nagar (Near A to Z Super Market) and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.

Agency : Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.

Customer's Reference : BBMP/EE/YNK.D/EPMT-15/W.O/03/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-2022

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-04-2022

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	48	86	8.6	91.4	60-95	75-100	85-100	95-100
4	1.18 mm	245	331	33.1	66.9	30-70	55-90	75-100	90-100
5	600 micron	211	542	54.2	45.8	15-34	35-59	60-79	80-100
6	300 micron	285	827	82.7	17.3	5-20	8-30	12-40	15-50
7	150 micron	155	982	98.2	1.8	0-10	0-10	0-10	0-15
8	Pan	18	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-07-15-32** **Date: 13-04-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th Cross, 1st Main Santhosh Nagar (Near A to Z Super Market) and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/03/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-04-2022
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	12-04-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	510	650	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	528	674	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.885	548	678	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-15-32** **Date: 14-04-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th Cross, 1st Main Santhosh Nagar (Near A to Z Super Market) and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/03/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-04-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-04-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7284	7473	49.8	50.2	30-70
4	10 mm	4089	11562	77.1	22.9	10-35
5	4.75 mm	3001	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-15-32** **Date: 14-04-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.21	–

• The results obtained are satisfactory as per standard requirements.

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ಕ.ರಾ.ಮ.ನಿ. ಬೆಂಗಳೂರು-106

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-15-32** **Date: 13-04-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th Cross, 1st Main Santhosh Nagar (Near A to Z Super Market) and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/03/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-04-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-04-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3050	3249	65.0	35.0	25-55
4	4.75 mm	1502	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-15-32** **Date: 13-04-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.27	–
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-15-32** **Date: 14-04-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th Cross, 1st Main Santhosh Nagar (Near A to Z Super Market) and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK D/EPMT-15/W O/03/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-04-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification. IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-04-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.08	-
2	Finess by Air permeablity method (m^2/kg,Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	-
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-07-15-32** **Date: 06-06-2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th Cross, 1st Main Santhosh Nagar (Near A to Z Super Market) and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/03/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-2022
Sample Type /Size	:	Precast Cover Slab-100mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	01/06/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.49	100.05	1.980	4475	85.4	19.1	17.7	22.2
2	Cover Slab-2	75.51	100.02	1.995	4477	82.6	18.4	17.2	21.4
3	Cover Slab-3	75.52	100.01	1.978	4478	80.7	18.0	16.8	20.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/06/2022

Lab ID	:	CP-2022-07-15-32
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th Cross, 1st Main Santhosh Nagar (Near A to Z Super Market) and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No 243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/03/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-2022
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	23/06/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	16/06/2022	23/06/2022	149.53 X 151.72 X 151.59	22686	8.158	420.3	18.5	18.4
2	Drain Bottom Raft	M20	16/06/2022	23/06/2022	150.78 X 149.38 X 149.40	22524	8.242	410.9	18.2	
3	Drain Bottom Raft	M20	16/06/2022	23/06/2022	149.94 X 150.58 X 151.80	22579	8.741	419.2	18.6	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-07-15-32** **Date: 14/07/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th Cross, 1st Main Santhosh Nagar (Near A to Z Super Market) and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W O/03/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-2022
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	16/06/2022	14/07/2022	149.34 X 149.48 X 151.27	22324	8.290	533.0	23.9	23.3
2	Drain Bottom Raft	M20	16/06/2022	14/07/2022	149.52 X 151.67 X 149.04	22679	8.284	514.7	22.7	
3	Drain Bottom Raft	M20	16/06/2022	14/07/2022	151.61 X 149.40 X 149.38	22651	8.251	528.9	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-07-15-32** **Date: 18/07/2022**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 5th Cross, 1st Main Santhosh Nagar (Near A to Z Super Market) and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.
Agency	:	Sri. G Mahendra (Sree Manojava Enterprises), No.243, 1st Floor, 15th D Cross, 2nd Phase, Mahalakshmipuram, Bangalore-560086.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-15/W.O/03/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-06-2022
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	18/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	20/06/2022	18/07/2022	150.28 X 150.20 X 149.88	22572	8.287	525.1	23.3	23.1
2	Drain Side Wall	M20	20/06/2022	18/07/2022	150.60 X 150.57 X 151.55	22676	8.424	517.8	22.8	
3	Drain Side Wall	M20	20/06/2022	18/07/2022	149.81 X 150.88 X 151.78	22604	8.904	523.5	23.2	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಎಂಜಿನಿಯರ್ ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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****End of Report****

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to roads and drains at 5th Cross, 1st Main Santhosh Nagar (Near A to Z Super Market) and Surrounding areas in Ward No.03, Attur Yelahanka Satellite Town Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC M20	Compressive Strength(7days and 28days)	5 set /50-100 cum	78.13	10	10

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